RESEARCH-BACKED STRATEGIES FOR COMPUTER EDUCATION

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Advances in technology mean limitless possibilities in education. However, there's no single approach that works for everyone. The teacher should still consider different aspects of learners' ability to learn, as well as their interests and preferences.

Here are some research-based strategies that you may try to utilize in teaching computer subjects.

The first is by using visuals during instruction. A hands-on experience, for instance, when you are teaching about the difference between hardware and software, is a good choice. If the number of computer units is limited, you may create a video showing the difference between the two.

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Learner encouragement is another viable technique. There's nothing worse than hearing from your teacher that you won't go places with your chosen specialization. Making students feel that they are capable of doing better is a great start.

Another strategy that may work is by teaching students to decode the code. This is by far the best option when you want them to learn how to code a specific program. Don't just teach them the codes and ask them to write a program for a specific function. Rather, encourage them to analyze well—written programs and thus discover how to make the codes work.

For students with learning disabilities, you may leverage peer-to-peer support and collaboration. Individual accountability is practiced as well as a sense of responsibility in offering technical support to others.

Maximum student engagement may also be achieved through solving meaningful problems. Relevance is essential for learners to appreciate the need to learn a specific skill. Give learners real-life problems to work on so as to increase their interest in the subject.

Collaboration and sharing are other techniques that work well with learners since these enable them to see others' work and lead them to realize that there can be various solutions to just one problem. It also makes the students feel included and indeed proud of their work.

Most importantly, it is vital to cultivate a growth mindset where every learner has the freedom to ask questions. Let them think further and challenge traditional concepts for further development. Reward the process of continuous learning rather than sticking to what most people are used to.

References:

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